

**SPEC SHEET**  
**PX82-mV**

Interchangeable with  
**Model TH-D2**

**\$795**  
Model Shown

# LOW RANGE WET/WET INDUSTRIAL DIFFERENTIAL PRESSURE TRANSDUCER



**Model PX82B0-100DV**  
Shown Smaller Than Actual Size

**PX82 Series  
mV/V Output**

0-50 to 800 in H<sub>2</sub>O  
0-125 to 0-2,000 mbar

**Differential Pressure**

1 psi = 27.68 in-H<sub>2</sub>O  
1 bar = 14.5 psi  
1 kg/cm<sup>2</sup> = 14.22 psi  
1 Atmosphere = 14.7 psi = 29.93 in-Hg = 760.2 mm-Hg = 1.014 bar

- Inches of Water Differential at Line Pressure - up to 1500 psi
- FM/CSA Approved Intrinsically Safe
- Stainless Steel/Inconel Construction for Harsh Industrial Environments
- High Overpressure Capability High Operating Temperature
- 5 Point Calibration Provided 0%, 50%, 100%, 50%, 0%

The OMEGADYNE™ PX82 Series wet-wet, differential pressure transducers can measure inches of water differential at line pressure up to 1500 psi. This high line pressure capacity, high operating temperature and excellent temperature compensation make the PX82 Series an extremely accurate and reliable transducer. FM and CSA approved intrinsically safe is standard. The rugged stainless steel and Inconel Diaphragms and Stainless Steel body give the PX82 Series high reliability in harsh industrial environments.

**For Sales and Service  
In U.S.A. and Canada**

**1-800-872-3963<sup>SM</sup>**  
**1-800-USA-DYNE**

International Customers Dial  
**(614) 965-9340**  
24-Hour FAX (614) 965-9438

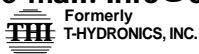
**OMEGADYNE<sup>SM</sup> FAX**

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► **Most Popular Models Highlighted** ◀

Prices Shown in U.S. Dollars

<b>To Order: (Specify Model Number)</b>			
<b>Models with mV/V Output and 4 ft (1.2m) Cable</b>			
Range (in H <sub>2</sub> O)	Model Number	Price	Compatible Meters
0-50	PX82B[*]-050WCDV	\$795	INFS, INFCS
0-100	PX82B[*]-100WCDV	795	INFS, INFCS
0-150	PX82B[*]-150WCDV	795	INFS, INFCS
0-200	PX82B[*]-200WCDV	795	INFS, INFCS
0-300	PX82B[*]-300WCDV	795	INFS, INFCS
0-500	PX82B[*]-500WCDV	795	INFS, INFCS
0-800	PX82B[*]-800WCDV	795	INFS, INFCS
Range (psi)	Model Number	Price	Compatible Meters
0-2	PX82B[*]-002DV	\$795	INFS, INFCS
0-3	PX82B[*]-003DV	795	INFS, INFCS
0-4	PX82B[*]-004DV	795	INFS, INFCS
0-5	PX82B[*]-005DV	795	INFS, INFCS
0-6	PX82B[*]-006DV	795	INFS, INFCS
0-8	PX82B[*]-008DV	795	INFS, INFCS
0-10	PX82B[*]-010DV	795	INFS, INFCS
0-15	PX82B[*]-015DV	795	INFS, INFCS
0-18	PX82B[*]-018DV	795	INFS, INFCS
0-22	PX82B[*]-022DV	795	INFS, INFCS

Interchangeable with Model TH-D2

Metric Ranges Available - Consult Engineering

[\*] Insert 0 for 4 ft cable or 1 for Bendix Connector

To order extra cable length, add suffix "(length in feet)FT" to model number and \$2/ft over 4 ft.

**Ordering Examples:** 1.) **PX82B0-300WCDV** is a 300 in-H<sub>2</sub>O differential pressure transducers with 1.5 mV/V output and 4 ft (1.2m) of shielded cable, \$795.

2.) **PX82B0-010DV-25FT** is a 10 psi differential pressure transducers with 1.5 mV/V output and 25 ft (7.6m) of shielded cable, \$795+42= \$837.

Printed On Recycled Paper



# RUGGED LOW RANGE WET/WET DIFFERENTIAL PRESSURE TRANSDUCER

## SPECIFICATIONS: mV/V Output

### Electrical:

Excitation: 10Vdc (15V max)

Output: 1.5 mV/V

Input Resistance: 5000 ohms min.

Output Resistance: 5000 ±25 ohms

Zero Balance: ±2% FS

### Performance:

Accuracy Class: 0.25% Linearity, Hysteresis and Repeatability Combined

### Agency Approvals: FM/CSA

Intrinsically Safe IS/I.II.III/1/CDEFG Standard

### Environmental:

#### Operational Temp Range:

-34 to +107°C (-30 to +225°F)

#### Compensated Temp Range:

-1 to +54°C (+30 to +130°F)

#### Pressure Effects:

Zero: <2% /1000 psi Line Pressure

Span: -2.45% /1000 psi Line Pressure

#### Thermal Effects:

Zero: ±0.50% FSO Maximum over compensated range

Span: ±0.50% Rdg maximum over compensated range

Pressure:

#### Pressure:

Ranges ± in-H<sub>2</sub>O: 50, 100, 150, 200, 300, 500, 800

Line Operating Pressure: 1500 psi

Safe Overpressure: 1000 psi each side

Burst Pressure: 2500 psi minimum

#### Mechanical:

Wetted Parts: 17-4 PH Stainless Steel and Inconel 625

Pressure Port: 1/8-27 NPTF

Electrical Connection: 4 ft (1.2m)

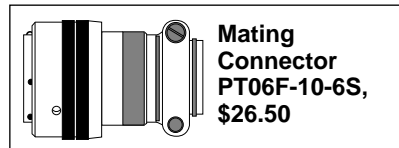
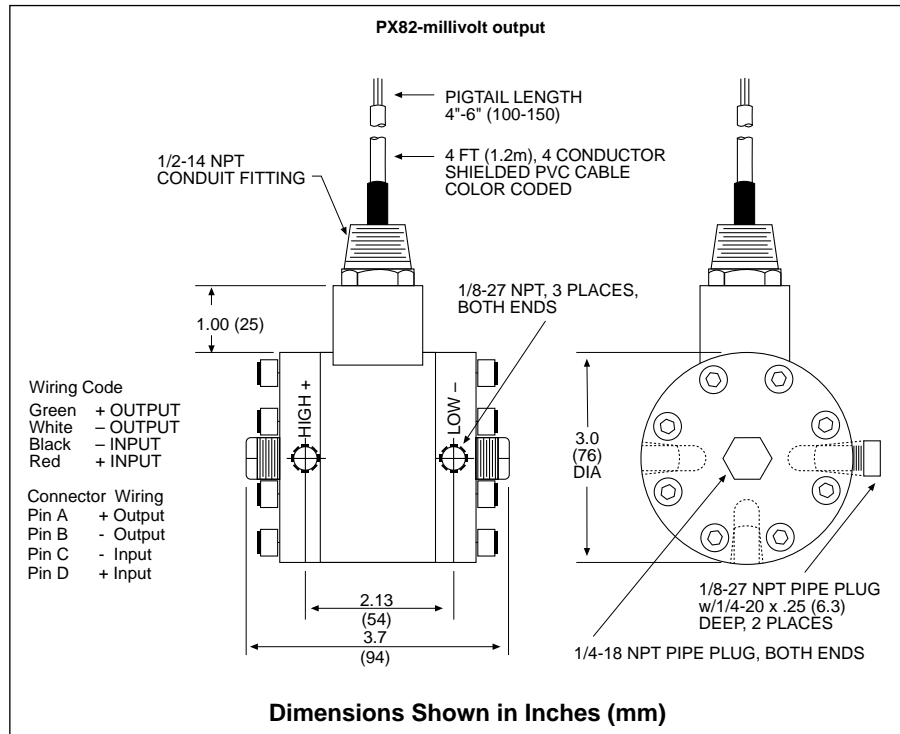
4-conductor shielded PVC cable

Optional: PT1H-10-6P (or equal)

Integral Connector.

Mating Connector: PT06F-10-6S

(not included)



## CUSTOM CONFIGURATIONS:

SERIES	PRESSURE PORT	ELECTRICAL CONNECTION	RANGE CODE	UNITS	OUTPUT	OPTIONS
PX82	[ 1 ]	[ 2 ]	[ 3 ]	[ 4 ]	[ 5 ]	[ 6 ]
	B = 1/8-27 NPT-F (Standard)		050WC 100WC 150WC 200WC 300WC 500WC 800WC	D = differential pressure in-H <sub>2</sub> O	V = mV/V Output \$795 5V = 0.5-5.5 Vdc \$950 I = 4-20 mA \$950	FM = FM Hazardous Location +\$150 (4-20 mA model only)
0 =	Shielded PVC Cable 4 ft (1.2m) mV/V models 10 ft (3m) on Amplified Models \$2/ft over standard length		002 003 004 005 006 008 010 015 018 022			
1 =	PT1H-10-6P Connector or equal (no charge). Mating Connector (not included) <b>PT06F-10-6S \$26.50</b>					
5 =	Lightening Protected Amplifier Housing (4-20 mA models only)					

**To Order a Custom Configuration:**

1. Select a Pressure Port
2. Select Electrical Connection
3. Select a Pressure Range
4. Select Pressure Units
5. Select Output
6. Select Options and Agency Approvals

Interchangeable with Model TH-D2 Series

Metric Ranges Available - Consult Engineering

Extra Cable Length: Add suffix "-(length in feet)FT", \$2/ft over standard length (10 ft (3m) on 5V and 4-20 mA output; 4 ft (1.2m) on mV/V output)

Ordering Examples: 1.) PX82D0-500WCDI is a 500 inch of water pressure range model with 4-20 mA output and 10 ft (3m) PVC cable, \$950.

2.) PX82D0-010DV-50FT is a 10 psi pressure range model with a mV/V output and 50 ft (15.2m) PVC cable \$795+92 = \$887

3.) PX82D1-200WCDI is a 200 inch of water pressure range model with 4-20 mA output with an integral connector, \$950. Mating Connector (not included) PT06F-10-6S, \$26.50. 4.) PX82D1-800WCDI-FM is a 800 inch of water pressure range model with 4-20 mA output with an integral connector and FM Hazardous Location rating, \$950+150 = \$1100. Mating Connector (not included) PT06F-10-6S, \$26.50.